DETAILED ACTION

Response to Arguments

1.   Applicant's arguments, see response, filed 24 September 2008, with respect to

the rejection(s) of claim(s) 1, 3-8, 10-15 and 17-19 under 35 USC §102(e) have been

fully considered and are persuasive. Therefore, the rejection has been withdrawn.

However, upon further consideration, a new ground(s) of rejection is made below.

Claim Rejections - 35 USC § 112

2.   The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3.   Claims 1, 3-8, 10-15 and 17-19 are rejected under 35 U.S.C. 112, first

paragraph, as failing to comply with the written description requirement. The claim(s)

contains subject matter which was not described in the specification in such a way as to

reasonably convey to one skilled in the relevant art that the inventor(s), at the time the

application was filed, had possession of the claimed invention.

[claims 1, 3-8, 10-15 and 17-19]

4.   Claims 1, 3-8, 10-15 and 17-19 recite a matrix equation

$$\begin{bmatrix} R \\ G \\ B \end{bmatrix} = \begin{bmatrix} 1-mk_{rg}-nk_{rb} & ok_{gr} & pk_{br} \\ qk_{rg} & 1-rk_{gb}-sk_{gr} & tk_{bg} \\ uk_{rb} & vk_{gb} & 1-wk_{bg}-xk_{br} \end{bmatrix} \begin{bmatrix} R_o \\ G_o \\ B_o \end{bmatrix}$$

including coefficients m, n, o, p, q, r, s, t, u, v, w and x which "denote the number of

times a certain color is included in the group of adjacent pixels immediately surrounding

the first pixel". The specification on page 5 describes a similar equation (equation 4).

However, equation 4 as described in the specification

$$\begin{bmatrix} R \\ G \\ B \end{bmatrix} = \begin{bmatrix} 1 - 4k_{rg} - 4k_{rb} & 4k_{gr} & 4k_{br} \\ 2k_{rg} & 1 - 2k_{gb} - 2k_{gr} & 2k_{bg} \\ 4k_{rb} & 4k_{gb} & 1 - 4k_{rg} - 4k_{br} \end{bmatrix} \cdot \begin{bmatrix} R_0 \\ G_0 \\ B_0 \end{bmatrix}$$

does not include such coefficients as claimed. While the specification does state that

different color filter patterns and embodiments may be used (e.g. page 4, lines 1-3 and

page 8, lines 9-14), there is no disclosure describing how equation 4 should be modified

when used with a different color filter pattern. Furthermore, there is no description

stating that the numbers used in equation 4 of the specification are set according to the

number of times that certain colors are included in the group of adjacent pixels

immediately surrounding a first pixel. Therefore, is unclear that Applicant had

possession of the invention as claimed where coefficients are set according to a number

of times a certain color is included in the group of adjacent pixels immediately

surrounding a first pixel (see MPEP §2163.02). It is further unclear whether Applicant

had possession of a more generic invention as claimed than is described in the

specification, i.e. determining a crosstalk correction equation for any color filter pattern

by changing equation 4 with coefficients m, n... x dependent on the color filter array

pattern (see MPEP §2163.05).

Claim Objections

5.   Claims 1, 8 and 15 are objected to because of the following informalities: replace

kb_g, kb_r and k_gb with k_{bg}, k_{br} and k_{gb} respectively to ensure consistency between the

claimed equation and definition of variables. Further replace R_a with R_o in the claimed

equations. Appropriate correction is required.

Conclusion

6.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Timothy J. Henn whose telephone number is (571)272-

7310. The examiner can normally be reached on M-F 11-7.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

        Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy J Henn/
Examiner, Temporary Full Signatory Authority, Art Unit 2622